ACI COMMITTEE 341 MEETING - EARTHQUAKE-RESISTANT CONCRETE BRIDGES

Sunday, March 25, 2018
Grand America & Little America, Salt Lake City, UT

MAIN COMMITTEE
341  Earthquake-Resistant Concrete Bridges  Sunday  3:00 PM - 5:00 PM  LA-Arizona

SUBCOMMITTEES
341-A  Columns  Sunday  1:00 PM - 3:00 PM  LA-Arizona
341-C  Retrofit  Sunday  9:00 AM - 11:00 AM  LA-Arizona
341-D  PBS&D  Sunday  11:00 AM - 1:00 PM  LA-Arizona

OTHER BRIDGE COMMITTEES
342  Bridge Evaluation  Sunday  8:30 AM - 10:30 AM  GA-Imperial Ball D
343  Bridge Design  Monday  10:00 AM - 12:00 PM  LA-Olympus
345  Construction  Sunday  1:30 PM - 3:30 PM  GA-Sussex

MEETING AGENDA
1)  Call to order and introduction
2)  Approval of the meeting agenda
3)  Review and approval of the Anaheim meeting minutes
4)  Membership updates, committee and subcommittee updates
5)  Technical sessions

Spring 2018 – Concrete Elevated
March 25-29, Grand America & Little America, Salt Lake City, UT
•  Accelerated Bridge Construction (ABC) Component and System Behavior (Tazarv, Haber): Mon, March 26, 2018 11:00 AM - 1:00 PM, GA-Milano
•  Seismic Repair and Retrofit of Concrete Bridges (Alam): Sun, March 25, 2018 3:30 PM - 5:30 PM, GA-Audubon
•  Rating Methods for Defining Performance of Existing Concrete Bridges, Joint with 342: Sun, March 25, 2018 8:30 AM - 9:30 AM, GA- Imperial Ballroom D (Mini-session), and Mon, March 26, 2018 4:00 PM - 6:00 PM, GA-Riviera

Fall 2018 – Dream Big, Build Bigger
October 14-18, Rio All-Suites Hotel & Casino, Las Vegas, NV
•  Preliminary session request: October 20, 2017
•  Final session request: March 30, 2018
•  Approved sessions

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• Proposed sessions
  o UHPC with 239 (Mohamed), mini-session perhaps?
  o ABC more broadly (not just columns) mini-session (Tazarv)?
  o Analysis and modeling session (like SOA from recent projects completed, not to overlap with Abdel-Mohti session)? (Moustafa)
  o Sessions to support the Retrofit and PBD subcommittees. Performance-based seismic design example studies could be presented but solicit engagement from broader audience?

Spring 2019 – Theme TBD
March 24-28, Quebec City Convention Centre and Hilton Quebec, Quebec City, Quebec, Canada
  • Preliminary session request: March 30, 2018
  • Final session request: October 19, 2018
  • Proposed sessions
    o High speed rail and light rail (Nadim, Shukre), contact Atorod
    o Sessions to support the Retrofit and PBD subcommittees?
    o Something specific to Canada?
    o Revisit an isolation session (Watson). Maybe include joints and bearings
    o New ideas?

Fall 2019 – Theme TBD
October 20-24, Duke Energy Convention Center & Hyatt Regency Cincinnati, Cincinnati, OH
  • Preliminary session request: October 19, 2018
  • Final session request: March 29, 2019
  • Proposed sessions
    o Sessions to support the Retrofit and PBD subcommittees?
    o SSI session
    o Showcase of new global seismic bridge projects recently constructed
    o New ideas?

Spring 2020 – Theme TBD
March 29-April 2, Hyatt Regency O'Hare, Rosemont, IL
  • Preliminary session request: March 29, 2019
  • Final session request: October 25, 2019
  • Proposed sessions
    o Sessions to support the Retrofit and PBD subcommittees?
    o Something specific to Midwest seismic interests?
    o New and novel bridge systems (not just columns) for seismic regions
    o New ideas?

Non-ACI Technical Sessions
• 16th ECEE joint with EAEE WG 11 “New technologies for seismic-resistant bridge columns” (Mackie)
• 11th NCEE “Advances in bridge modeling and nonlinear time history analysis” (Moustafa) and “New technologies for bridge columns” (ElGawady)
• Joint with ASCE Seismic Effects "Novel Bridges for Seismic Resilience and Enhanced Constructability" (Tazarv, Sideris)
• 6th EMM

6) Sub-Committee Reports
   a) Performance Based Seismic Design of Bridge Columns (ElGawady, Gencturk)
   b) Wall Piers (Burgueño, Beyer), ballot updates
   c) Retrofit and Repair (Alam, Despradel, Andrawes)
   d) Performance Based Seismic Design of Bridges (Silva)
   e) Bearings and Expansion Joints (Watson)
   f) Others

7) Report from other ACI committees
   a) ACI 342 Evaluation of Concrete Bridges and Bridge Elements
   b) ACI 343 Concrete Bridge Design (Joint ACI-ASCE)
   c) ACI 345 Concrete Bridge Construction, Maintenance, and Repair
   d) ACI Committees 352 (Joints and Connections in Monolithic Concrete Structures, Joint ACI-ASCE), 374 (Performance-Based Seismic Design of Concrete Buildings), and 441 (Reinforced Concrete Columns, Joint ACI-ASCE)

8) Future Meetings

9) Update from TAC – Cathy French

10) Other Business

PRESENTATION
Leo Barcley and Mervyn Kowalsky
North Carolina State University
Initial studies on 706-80 Reinforced Concrete Bridge Columns and Development of the 'Buckled Bar Tension Test'